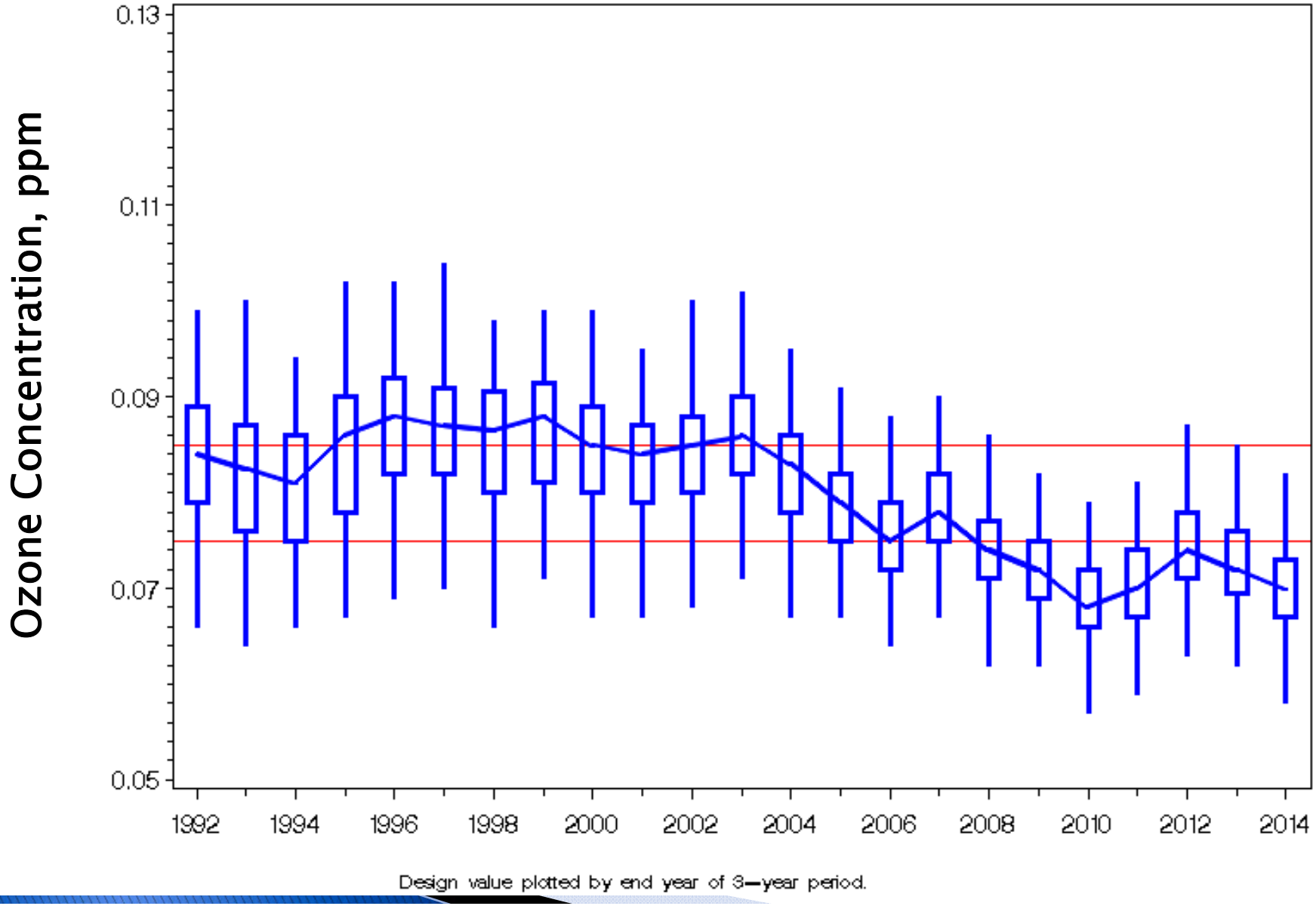
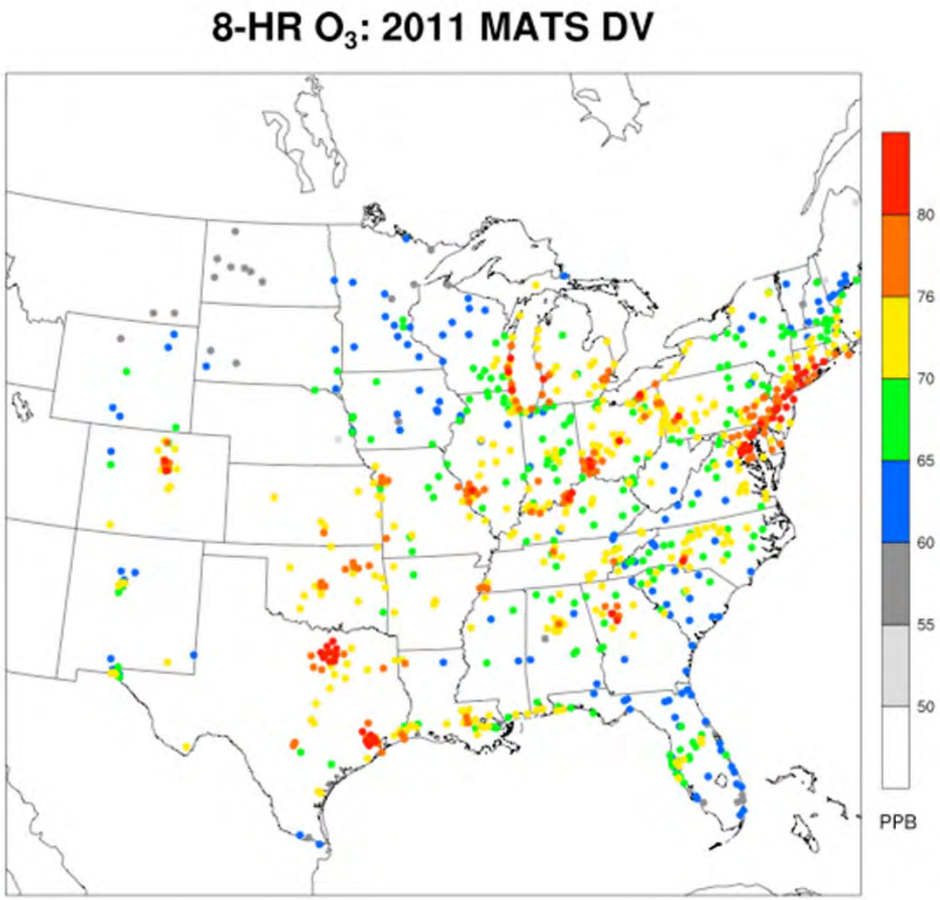
Regional Air Quality Issues

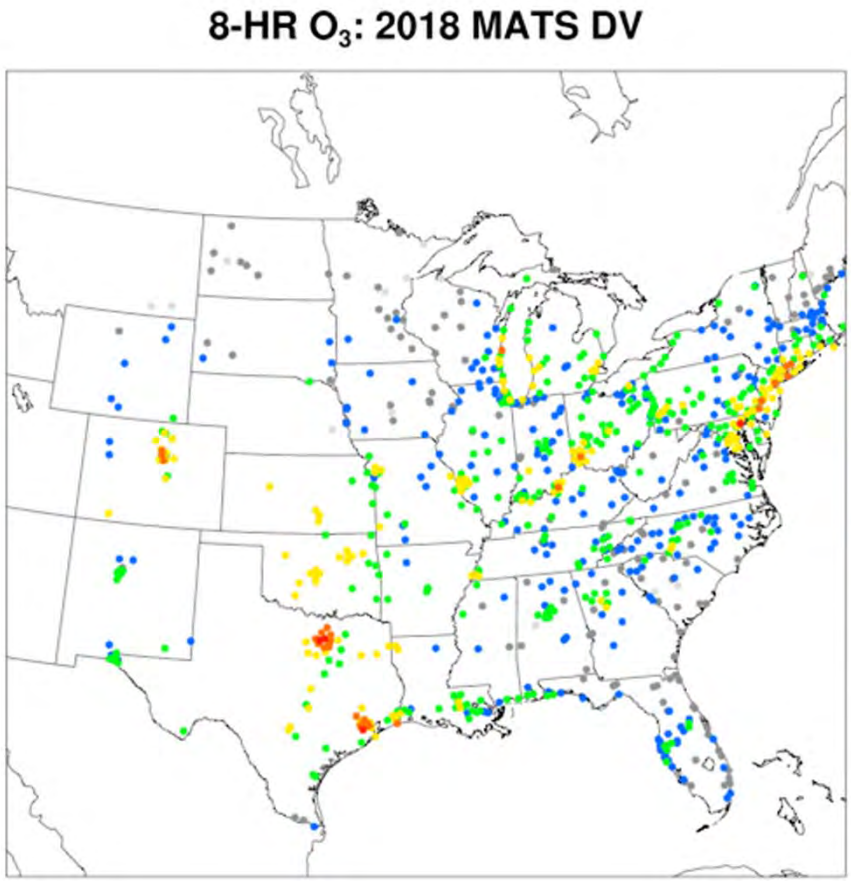
Rob Kaleel
Lake Michigan Air Directors Consortium
July 28, 2015

8-Hour Ozone Design Value Trends
LADCO States



2018 Ozone Modeled Attainment Test





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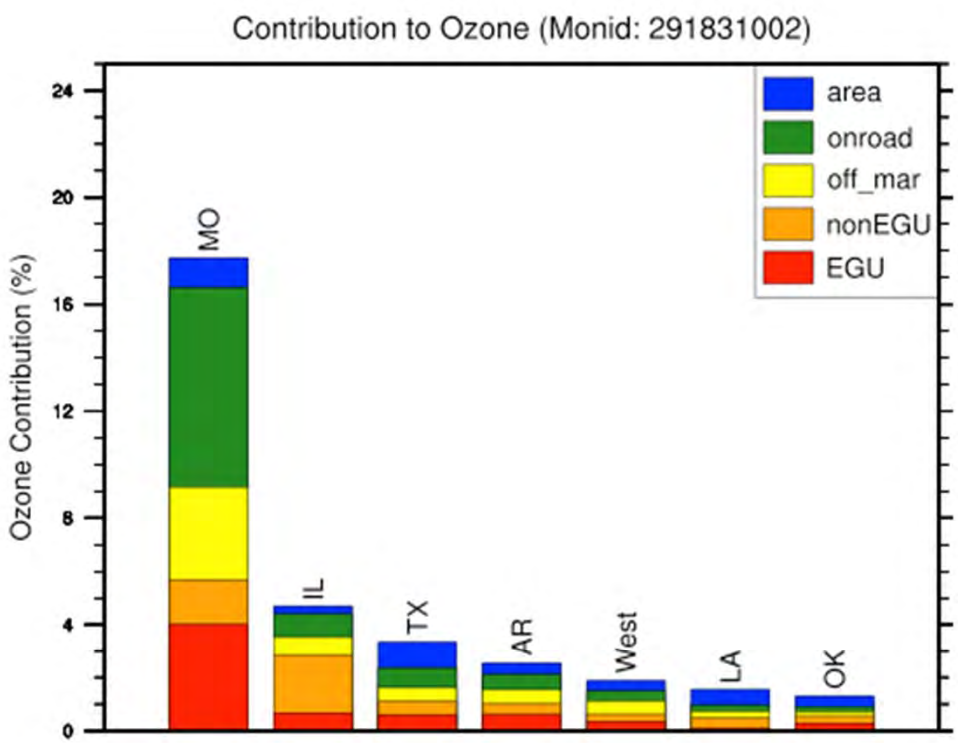
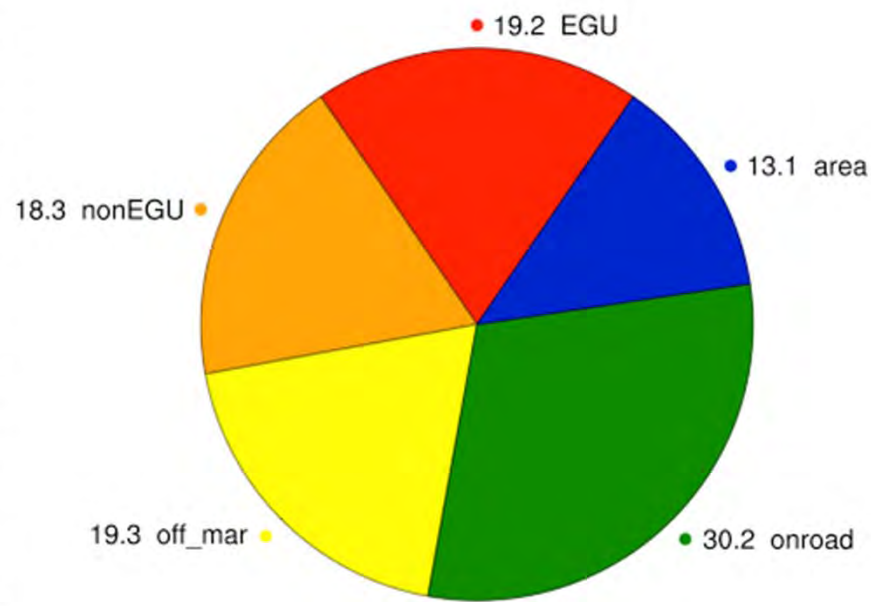
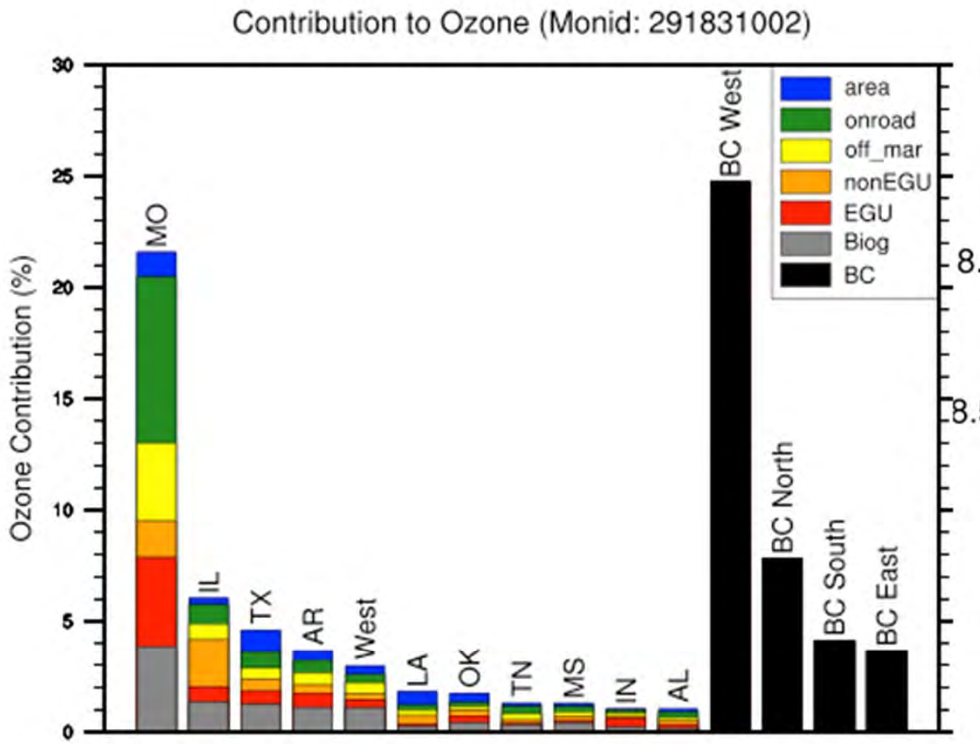
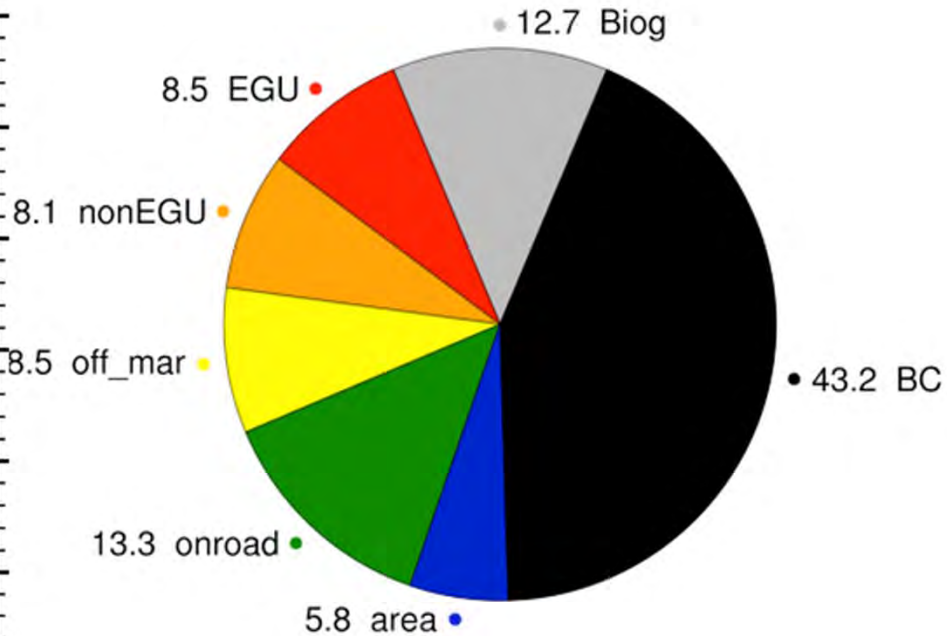
OSAT West Alton, MO



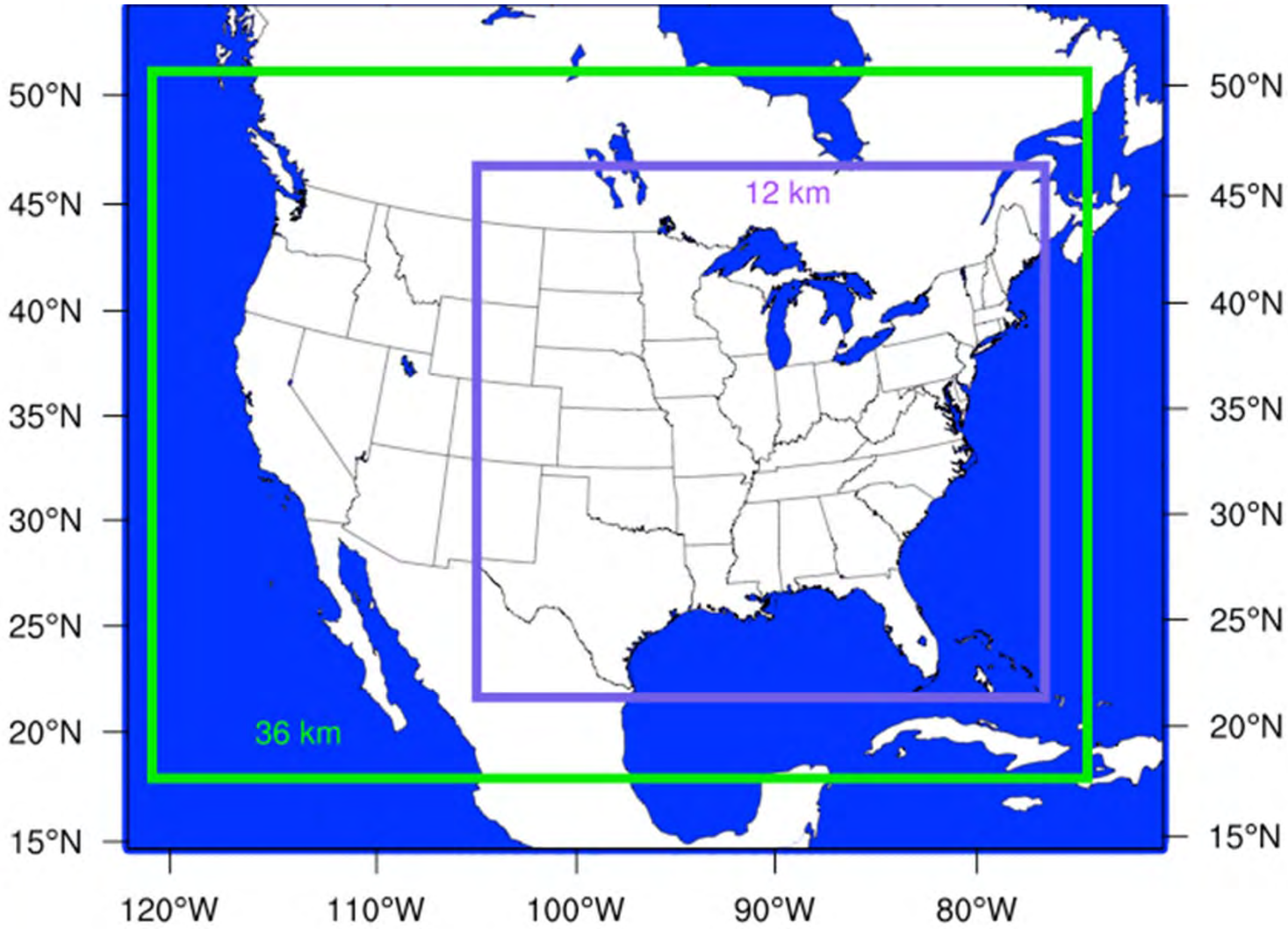


OSAT West Alton, MO

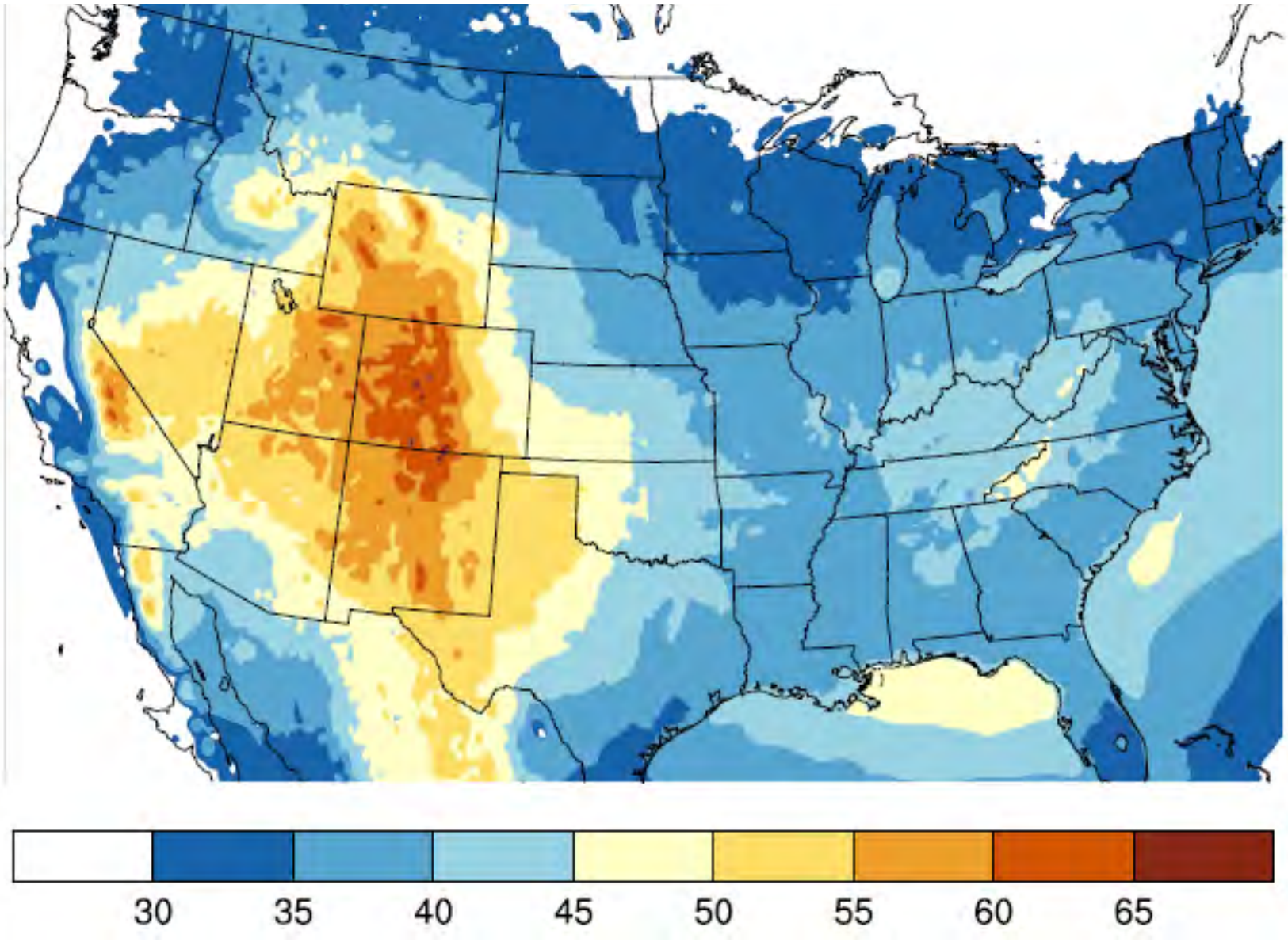




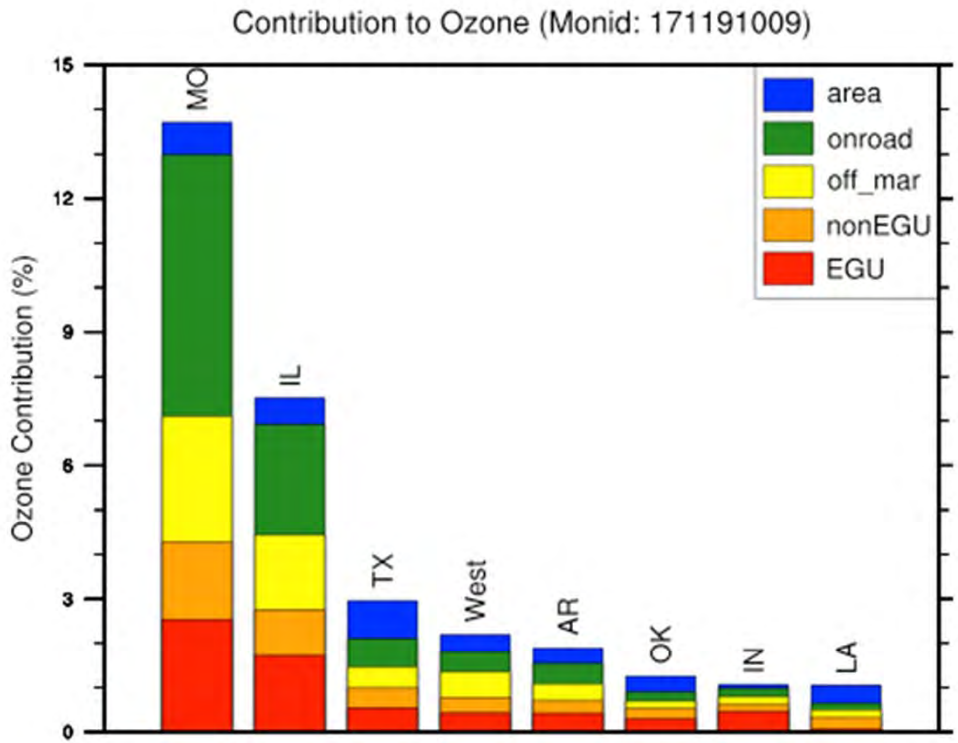
Modeling Domain

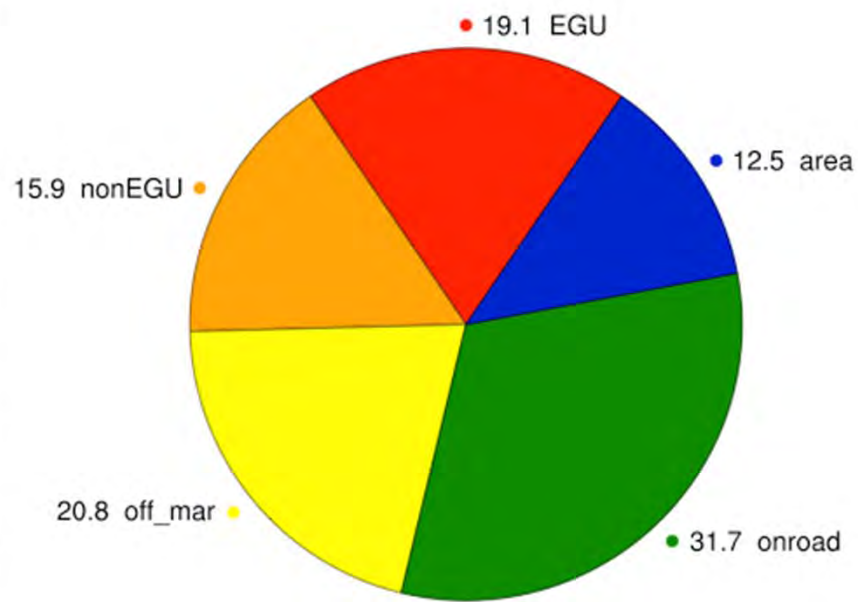


Model Performance Issue: Importance of Boundary Conditions

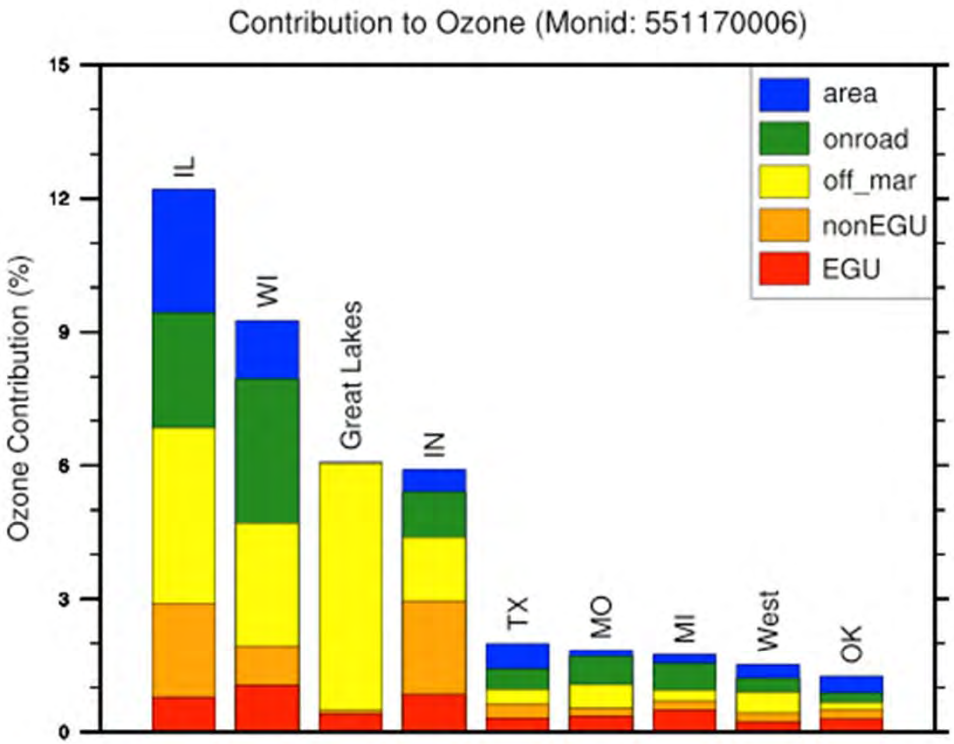


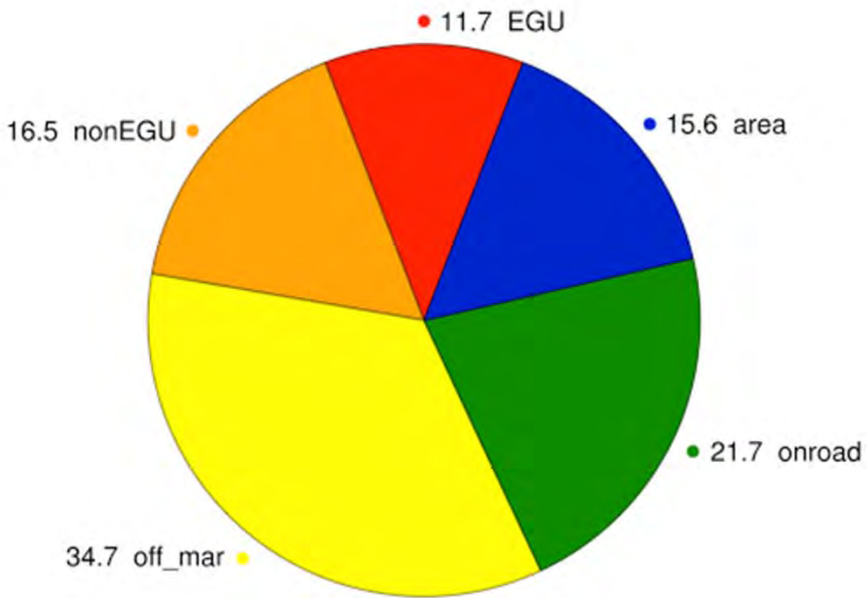
OSAT Alton, IL



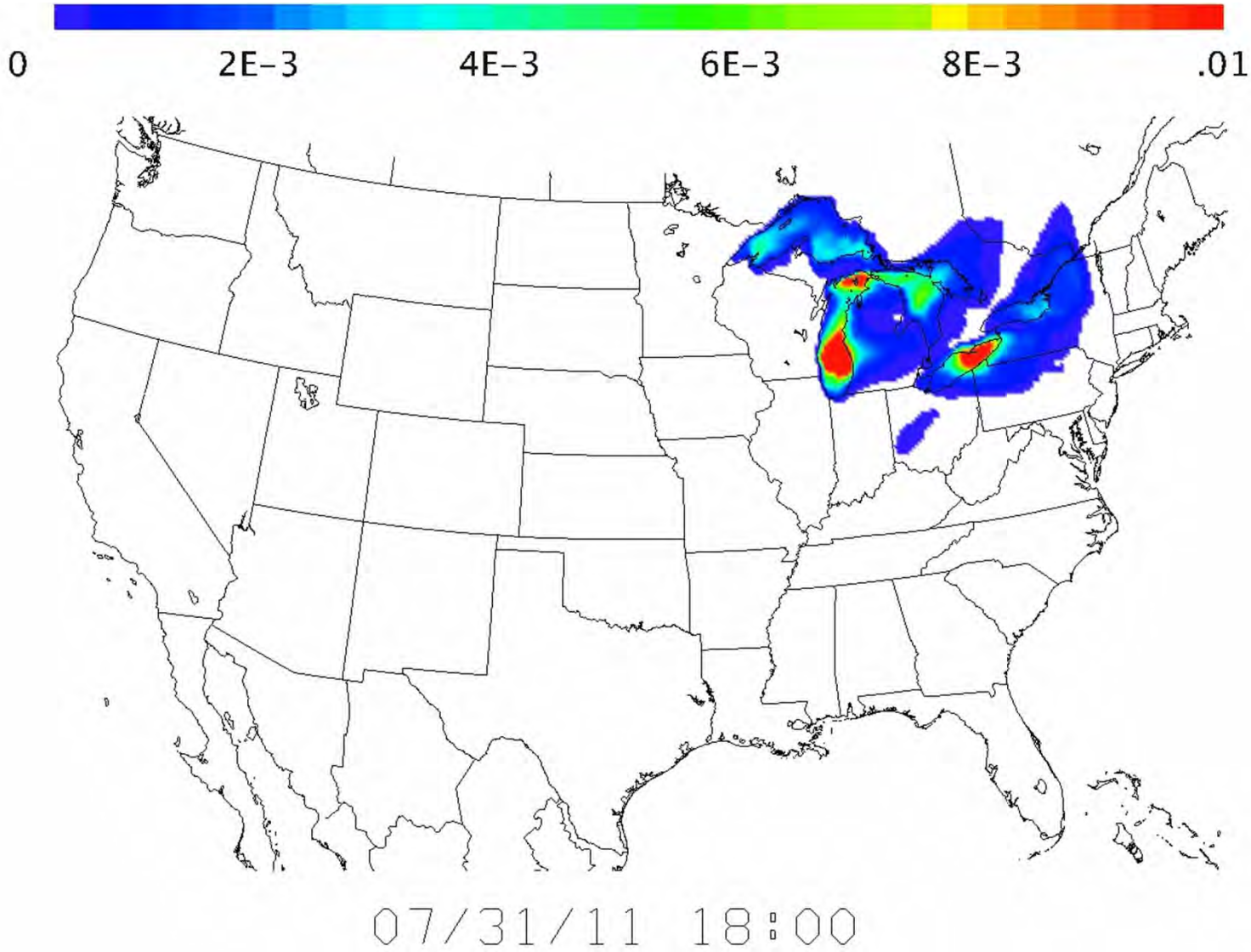


OSAT Sheboygan County, WI

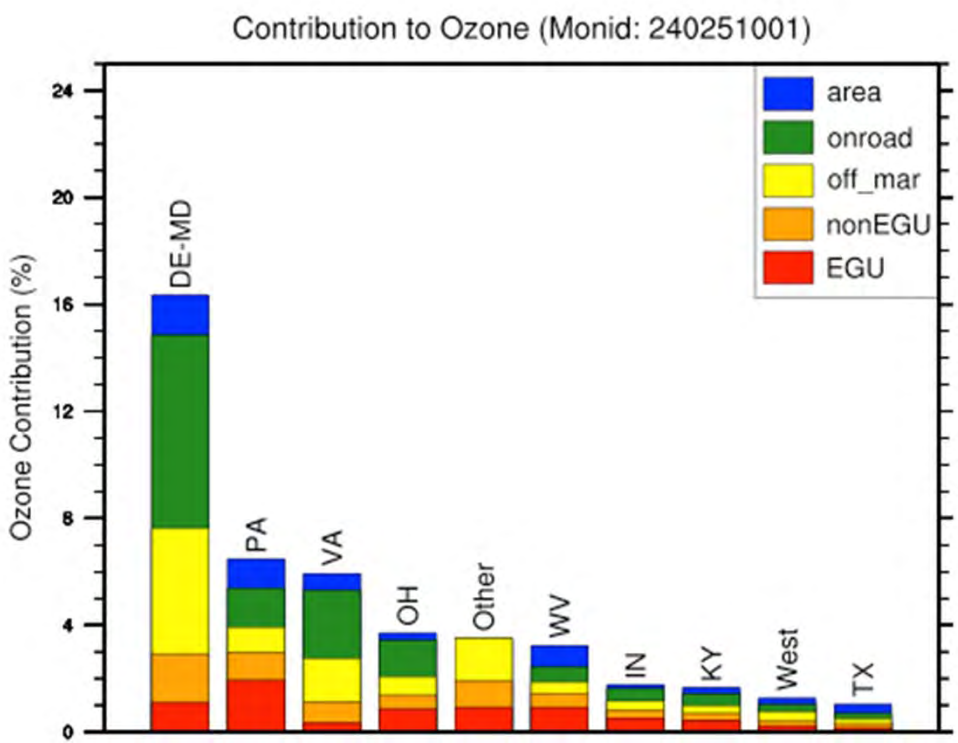


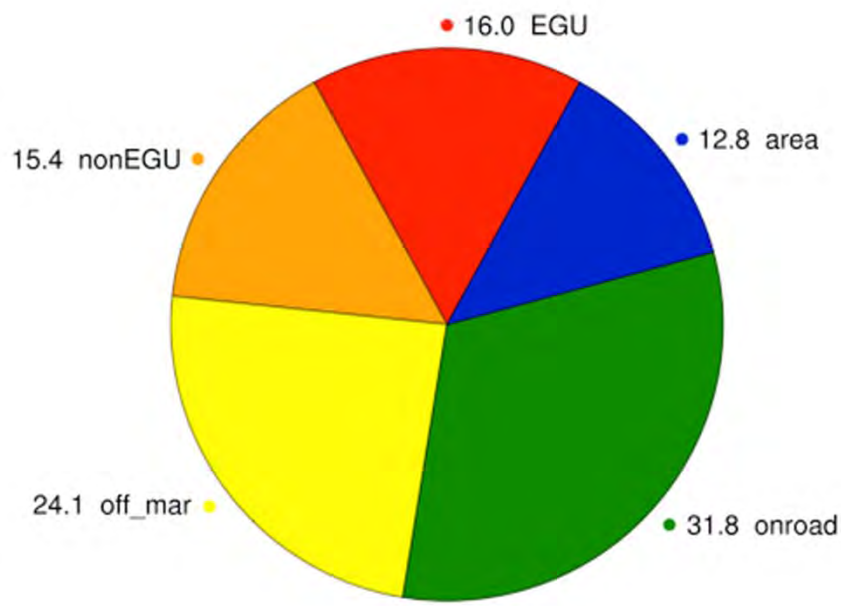


Ozone Contribution from Commercial Marine Vessels on the Great Lakes

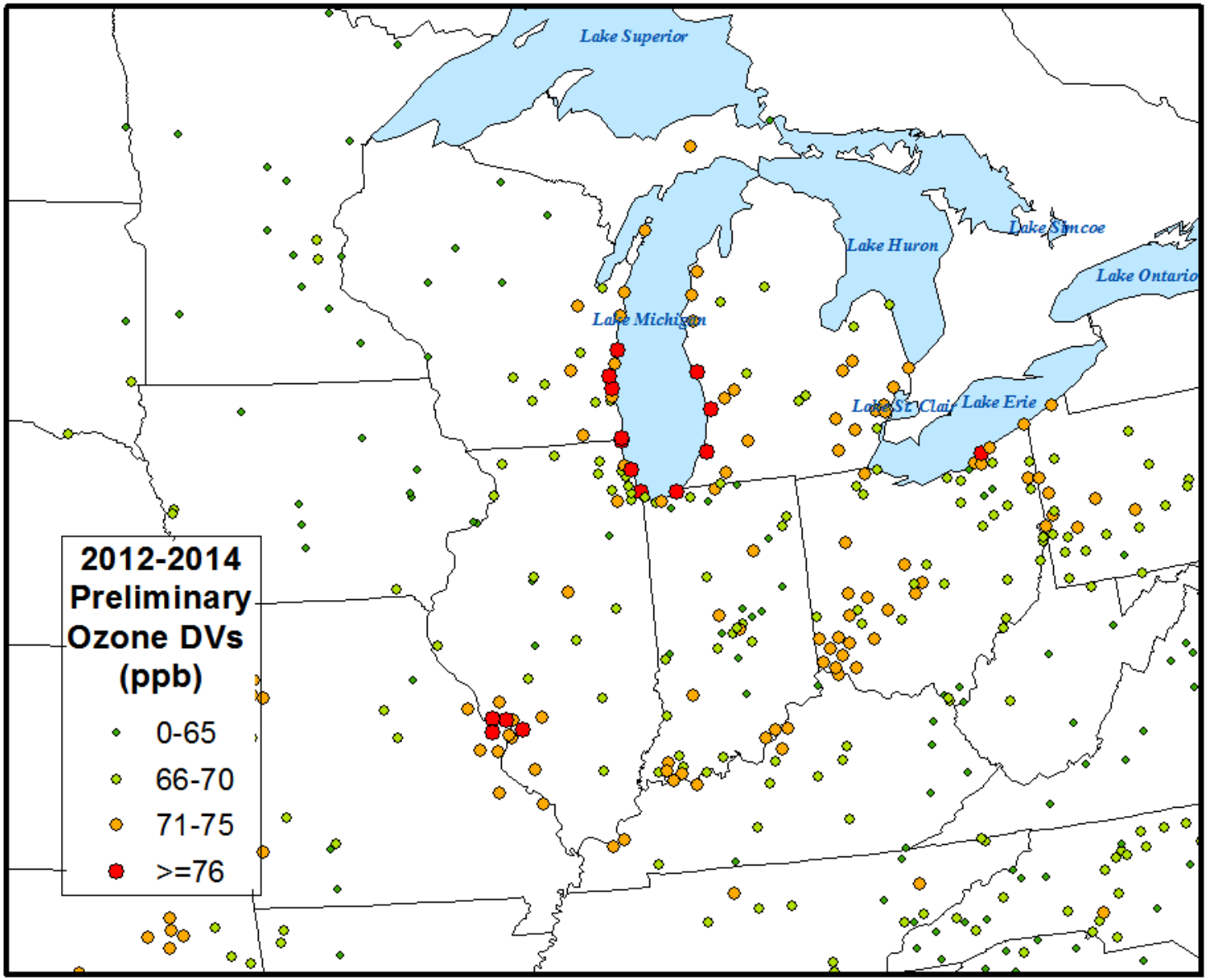


OSAT Harford, MD

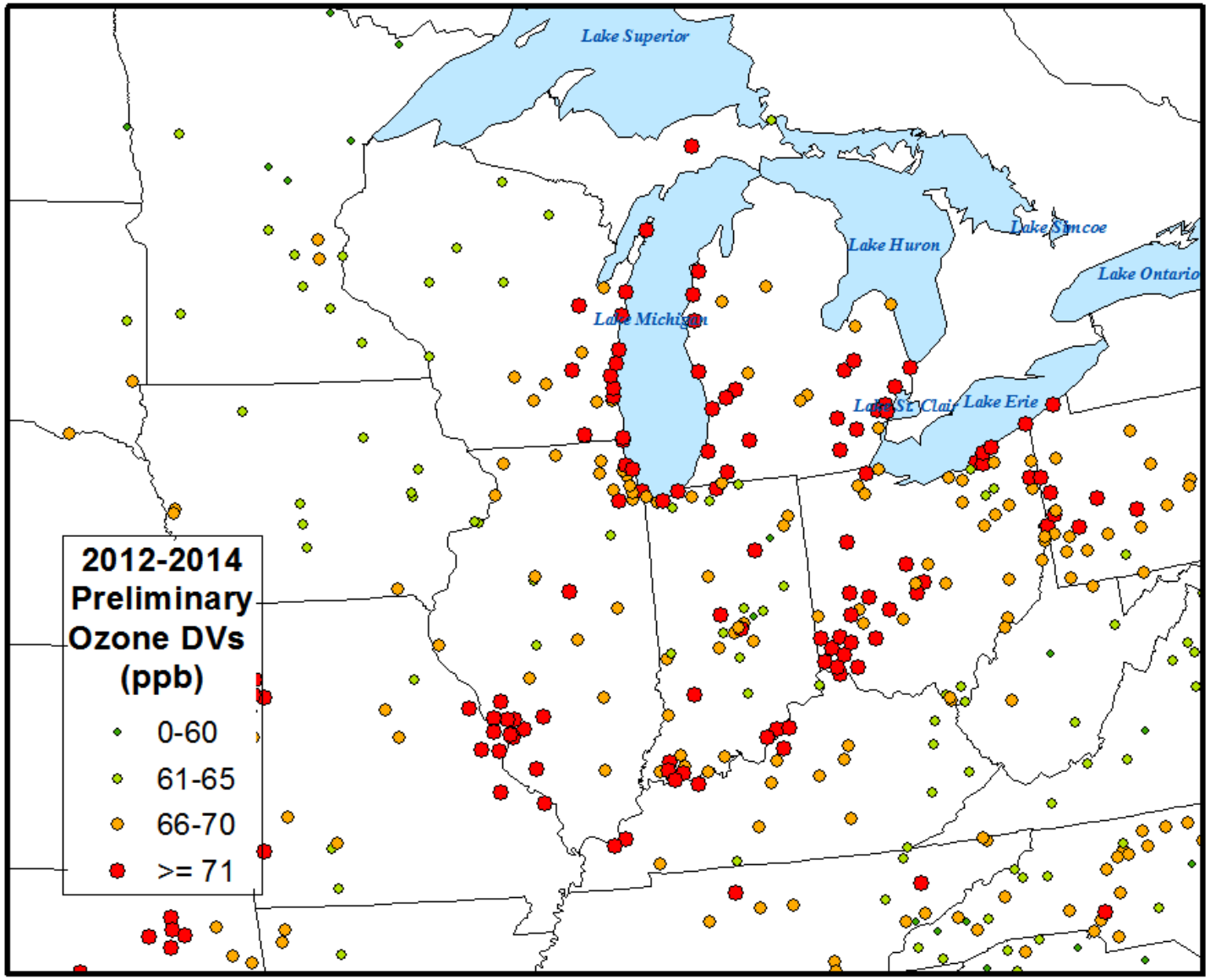




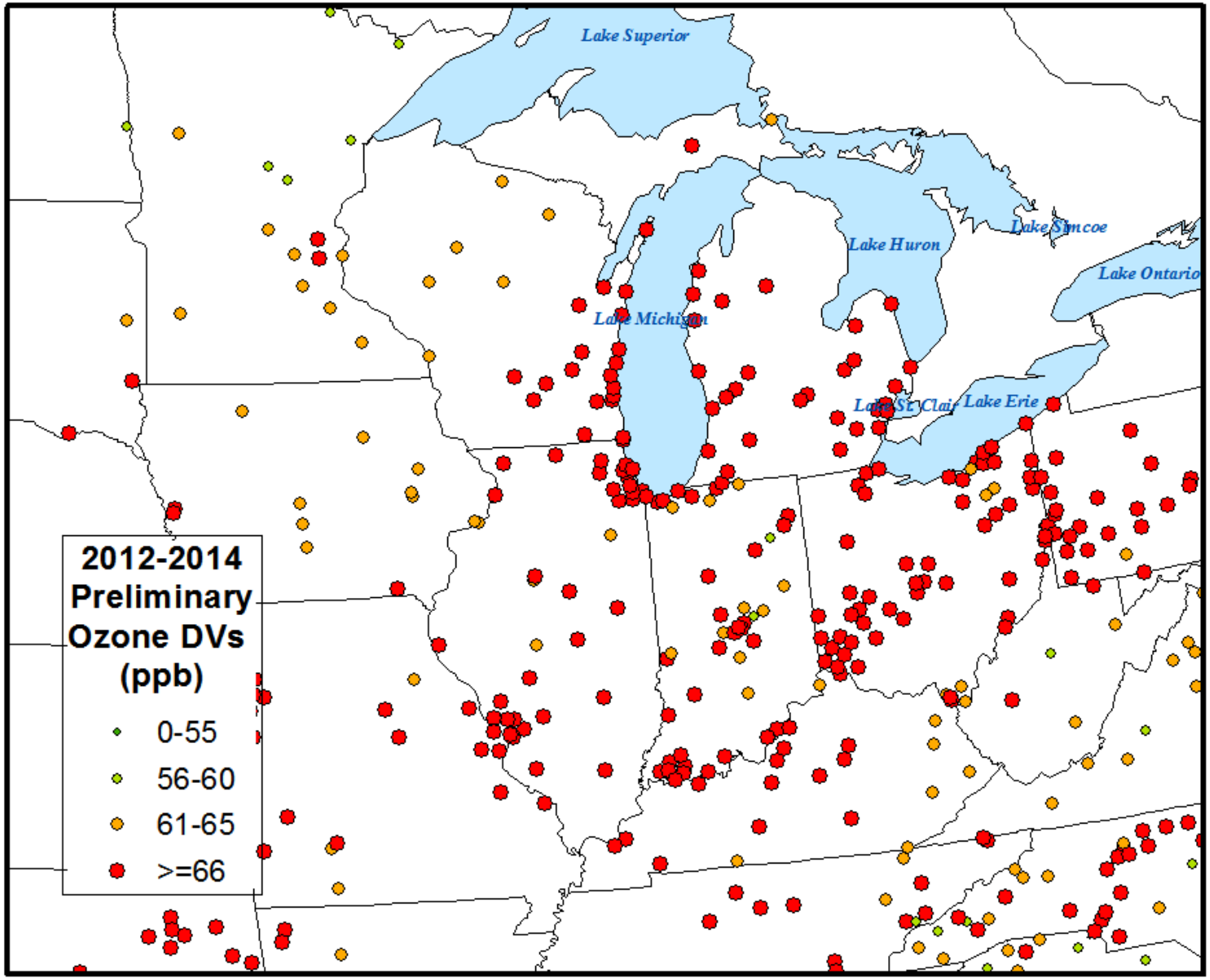
2012-2014 8-Hour Ozone Design Values



Proposed 8-Hour Ozone NAAQS – 70 ppb

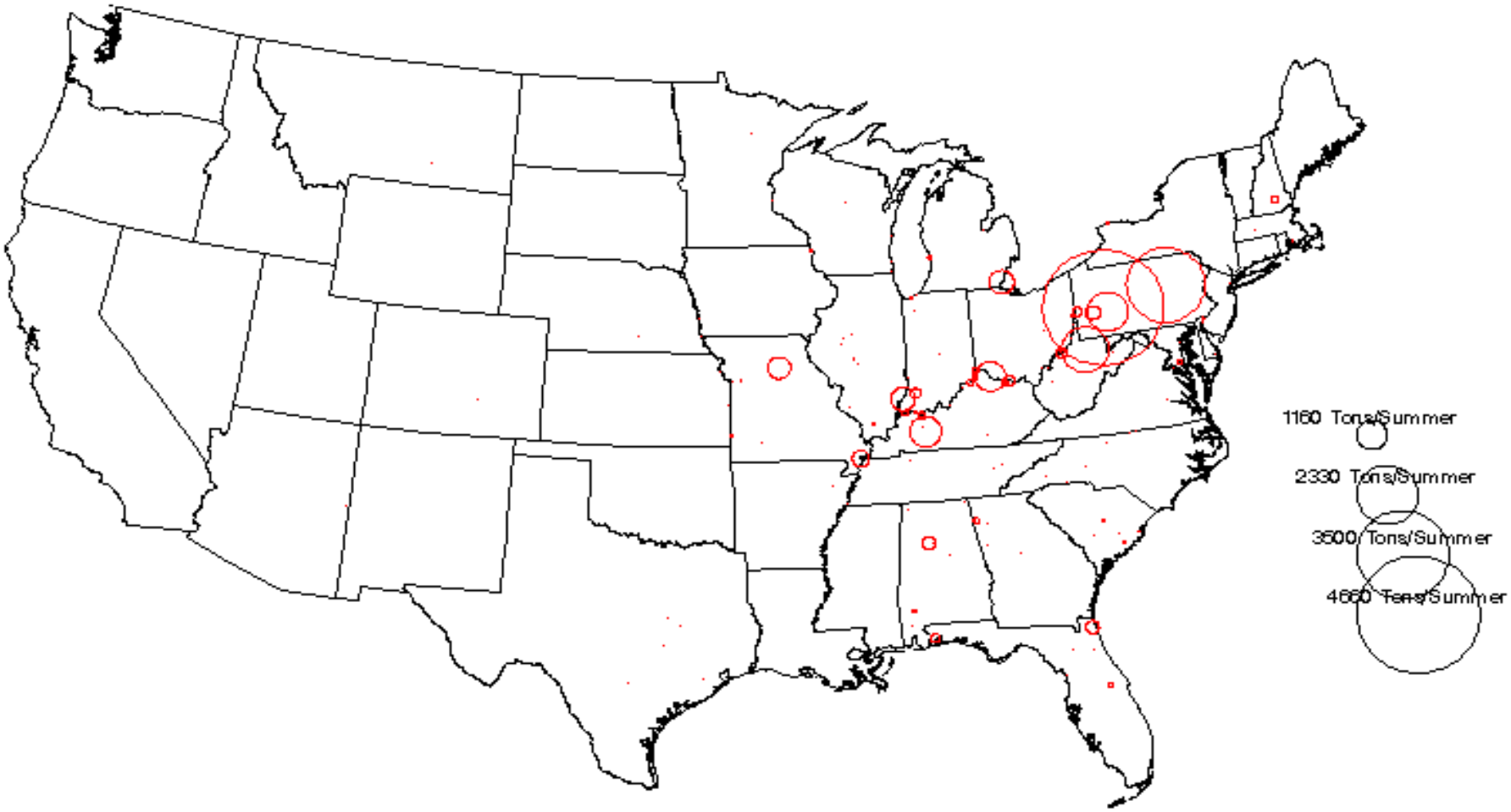


Proposed 8-Hour Ozone NAAQS – 65 ppb



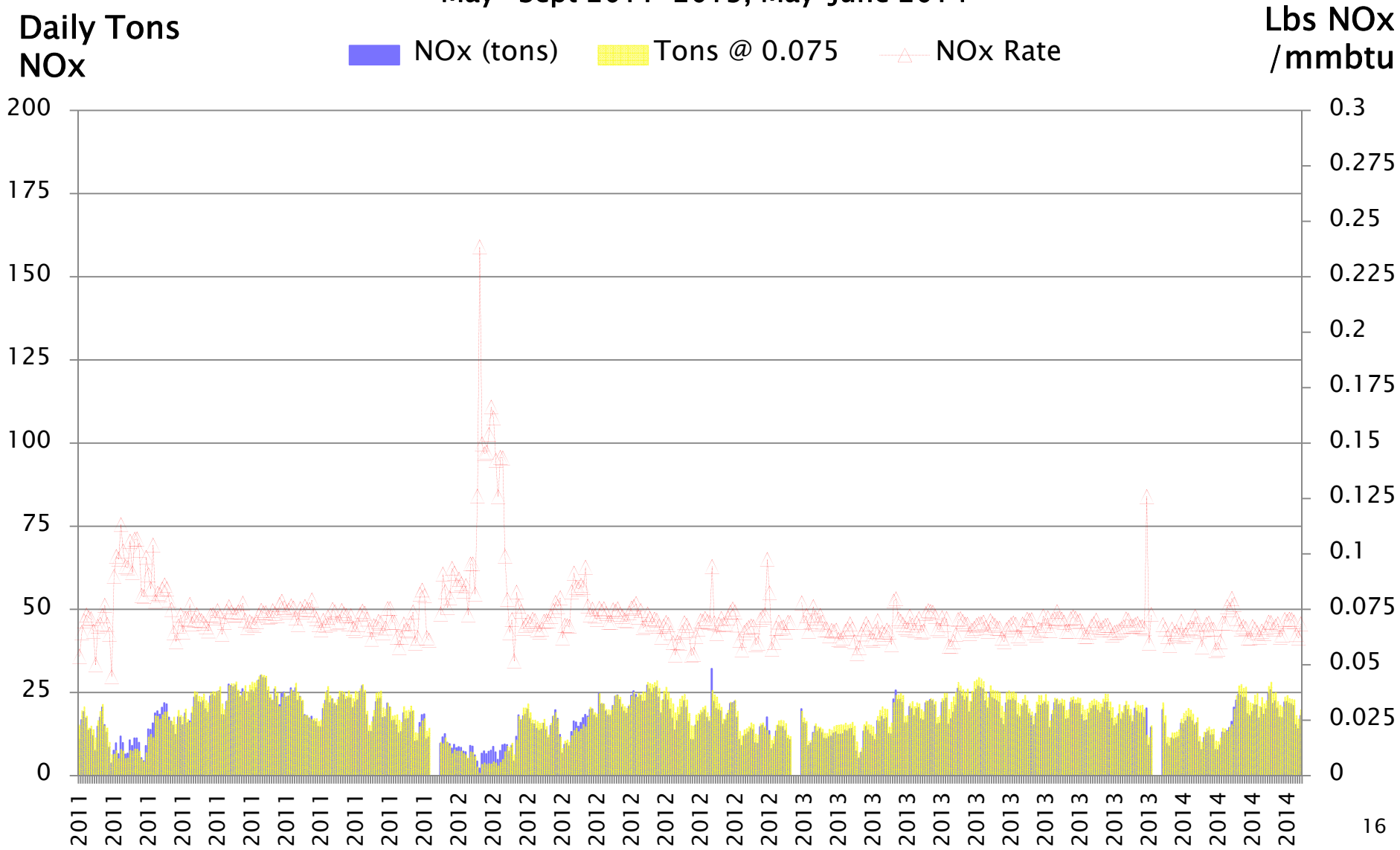
SCR-equipped EGU's Exceeding 0.10 lb/mmbtu

ERTAC 2.2 – 2011 base projected to 2018



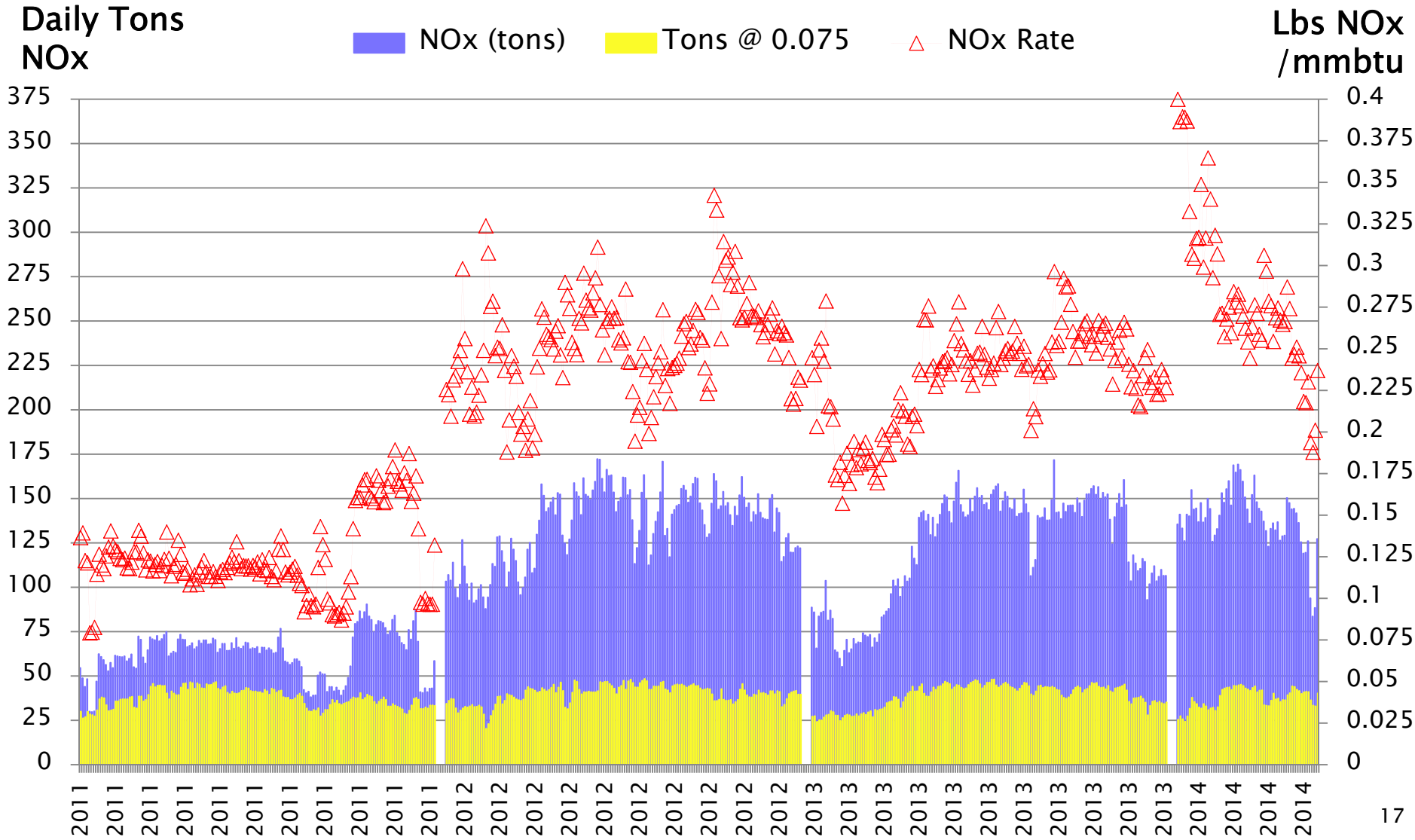
State A – SCR Fleet Composite – Summer Daily Operations – 2011–2014

May– Sept 2011–2013, May–June 2014

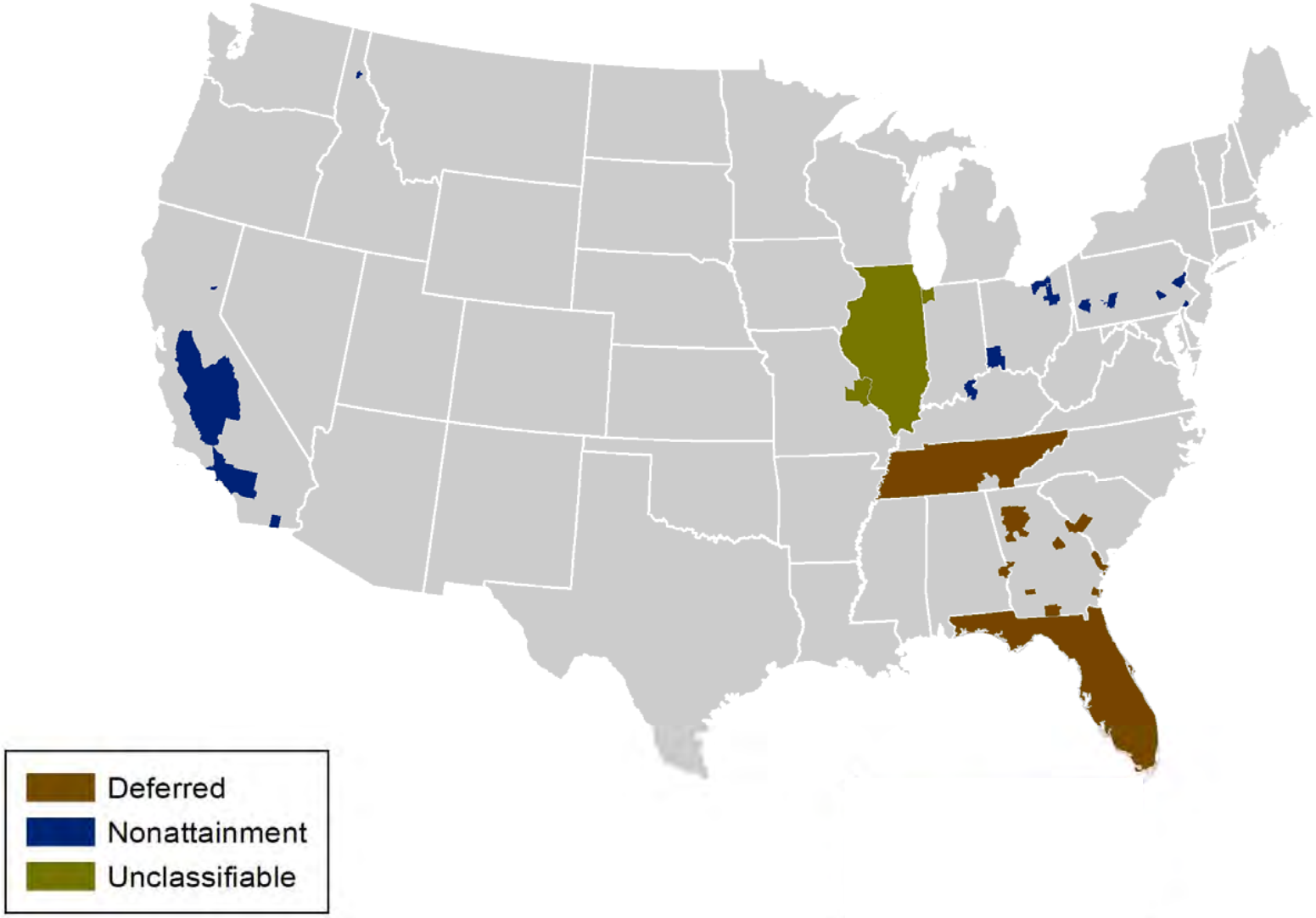


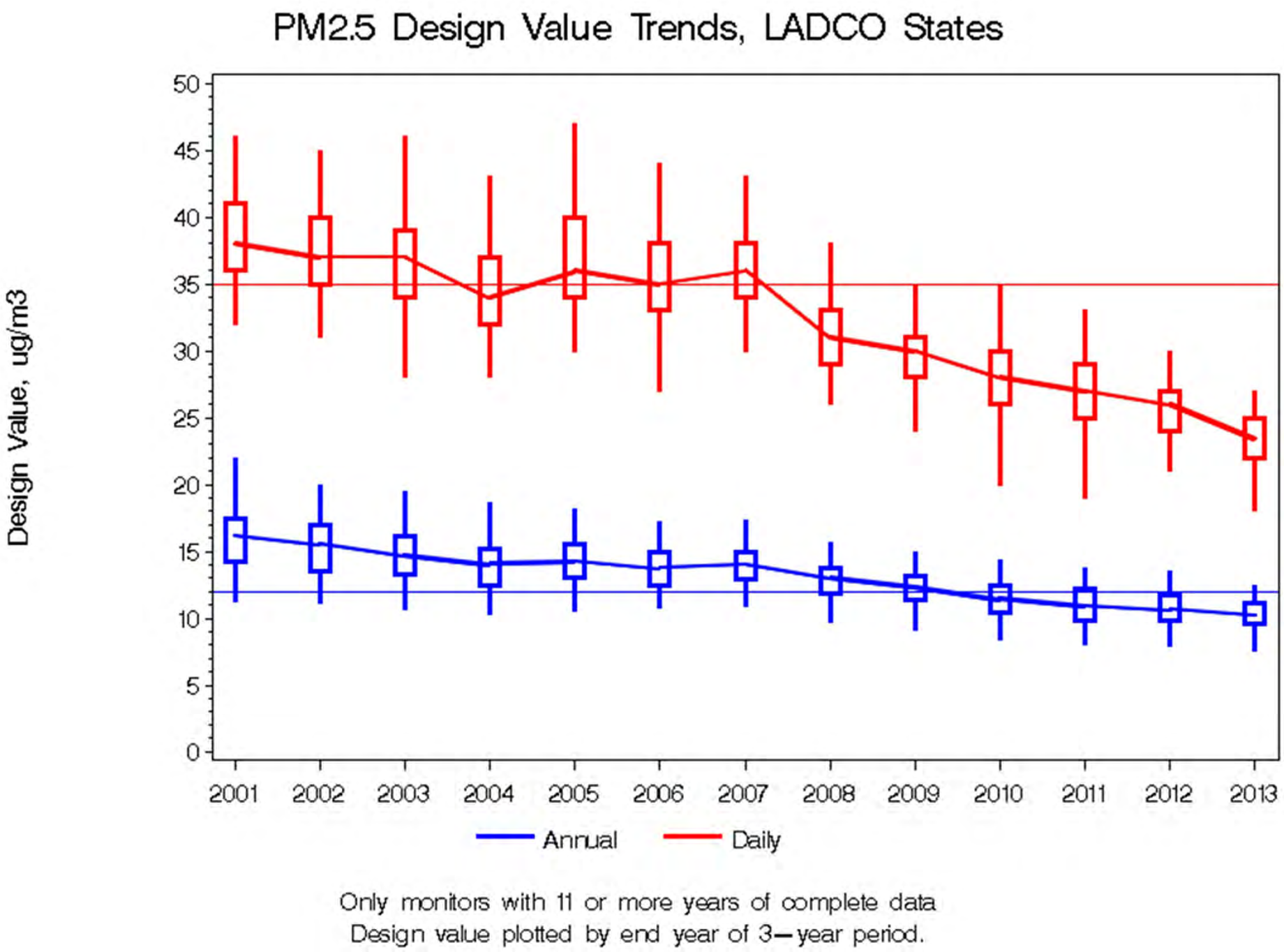
State B – SCR Fleet Composite – Summer Daily Operations – 2011–2014

May– Sept 2011–2013, May–June 2014



Nonattainment Areas for 2012 PM2.5 NAAQS




PM2.5 Design Value Trends, LADCO States
Design Value, ug/m3
50
45
40
35
30
25
20
15
10
5
0
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
Annual
Daily
Only monitors with 11 or more years of complete data
Design value plotted by end year of 3-year period.

Questions?

Rob Kaleel – LADCO

kaleel@ladco.org

847-720-7880